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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
3100 Port of Benton Blvd • Richland, WA 99352 • (509) 372-7950

September 5, 2007

Ms. Shirley J. Olinger, Acting Manager
Office of River Protection
United States Department of Energy
P.O. Box 450, MSIN: H6-60
Richland, Washington 99352

Mr. William S. Elkins, Project Director
Bechtel National, Inc.
2435 Stevens Center Place, MSIN: H4-02
Richland, Washington 99354

RECEIVED
SEP 10 2007
EDMC

Re: Submittal of Hanford Facility RCRA Permit Modification Notification Form 24590-LAW-PCN-ENV-07-002; Class ¹1 Modification to the Hanford Facility Dangerous Waste and Resource Conservation and Recovery Act (RCRA) Permit for the Treatment, Storage, and Disposal of Dangerous Waste, Part III, Operating Unit 10 (Waste Treatment and Immobilization Plant), WA7890008967

Dear Ms. Olinger and Mr. Elkins:

The Department of Ecology approves the referenced Class ¹1 Modification submitted August 17, 2007. The approved Hanford Facility RCRA Permit Modification Notification Form is enclosed.

Modification 24590-LAW-PCN-ENV-07-002 provides the following updated Piping and Instrument Diagrams:

- 24590-LAW-M6-LCP-P0001, Revision 3 for the Low Activity Waste (LAW) Concentrate Receipt Process System Concentrate Receipt Vessel (LCP-VSL-00001).
- 24590-LAW-M6-LCP-P0002, Revision 2 for the LAW Concentrate Receipt Process System Concentrate Receipt Vessel (LCP-VSL-00002).

The parties agree that during the transition period from permit drawings to engineering source drawings, items not requiring an installation inspection or inclusion in the Independent Qualified Registered Professional Engineer report may be shown in phantom. Ecology is approving the design changes identified in the Permittees' submittal. However, decisions regarding the regulation of items shown in phantom will be made at a later date. At the end of the transition period, permit submittals will contain engineering source documents and will be incorporated into the permit as described in Ecology Publication # 07-05-006 (www.ecy.wa.gov/biblio/nwp.html).



Ms. Olinger and Mr. Elkins
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If there are any questions, contact me at 509-372-7882 or Tracy Gao at 509-372-7901.

Sincerely,



Brenda Becker-Khaleel
WTP Permit Writer
Nuclear Waste Program

aah/jc
Enclosure

cc electronic w/enc:

John Eschenberg, USDOE
Lori Huffman, USDOE
Tony McKarns, USDOE
Gae Neath, USDOE
Don Sommer, USDOE
William Taylor, USDOE
Brad Erlandson, BNI
Peggy Fisher, BNI
Stan Hill, BNI
Dennis Klein, BNI
Sandi Murdock, BNI
Phil Peistrup, WGI

cc w/enc:

Administrative Record: Tank Waste Treatment Requirements ✓
Environmental Portal
USDOE-ORP Correspondence Control

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2007

24590-LAW-PCN-ENV-07-002


Hanford Facility RCRA Permit Modification Notification Form**Part III, Operating Unit 10****Waste Treatment and Immobilization Plant**

Index

Page 2 of 3: Hanford Facility RCRA Permit, Operating Unit 10, Waste Treatment and Immobilization Plant
Update LAW Vitrification Building Piping and Instrumentation Diagrams (P&IDs) for the LAW
Concentrate Receipt Process System Concentrate Receipt Vessel LCP-VSL-00001, LAW
Concentrate Receipt Process System Concentrate Receipt Vessel LCP-VSL-00002, in Appendix 9.2
of the Dangerous Waste Permit.

Submitted by Co-Operator:

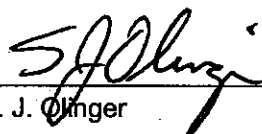
Reviewed by ORP Program Office:



D. A. Klein

7/24/07

Date



S. J. Olinger

8/17/07

Date

¹ Class 1 modifications requiring prior Agency approval.

² If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if applicable.

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Hanford Facility RCRA Permit Modification Notification Form

Unit:

Waste Treatment and Immobilization Plant

Permit Part & Chapter:

Part III, Operating Unit 10

Description of Modification:

The purpose of this Class 1 prime modification is to update the following Piping and Instrumentation Diagrams (P&IDs) for the LAW Concentrate Receipt Process System Concentrate Receipt Vessel LCP-VSL-00001, LAW Concentrate Receipt Process System Concentrate Receipt Vessel LCP-VSL-00002. The following permit P&IDs are submitted to replace those currently in Appendix 9.2.

Appendix 9.2			
Replace:	24590-LAW-M6-LCP-P0001, Rev. 2	With:	24590-LAW-M6-LCP-P0001, Rev. 3
	24590-LAW-M6-LCP-P0002, Rev. 1		24590-LAW-M6-LCP-P0002, Rev. 2

The referenced P&IDs are complete revisions. They incorporate changes provided in applicable document change forms (e.g., DCN, SCN, SDDR, FCN, FCR, etc.) and changes associated with the resolution to comments on change documents since the issuance of the last revision of the permit drawing. This modification requests Ecology approval and incorporation into the permit. Revisions are the result of ongoing design changes. The following identifies the significant types of changes on the attached drawings.

LAW Vitrification Facility - Piping and Instrumentation Diagram P&ID 24590-LAW-M6-LCP-P0001 (Rev. 3)

The DCNs associated with changes to P&ID 24590-LAW-M6-LCP-P0001 are provided in drawing Note 43.

- Revised physical layout of LCP-VSL-00005
- Added overflow line from LFP-VSL-00002
- Changed Quality Designator from CM to Q
- Added and/or revised notes 1, 28 through 33 and Note 40 and their callouts such as symbols and legends, slopes, valve locations, and system designators
- Added slope notation to numerous lines
- Added magnetic flow meter and associated instrumentation to pump discharge lines
- Corrected off-sheet coordinates
- Added ISA lines to bulges
- Added seismic category and quality flag designators
- Added nozzle size to vessel nozzles
- Incorporated various editorial comments

LAW Vitrification Facility - Piping and Instrumentation Diagram P&ID 24590-LAW-M6-LCP-P0002 (Rev. 2)

The DCNs associated with changes to P&ID 24590-LAW-M6-LCP-P0002 are provided in drawing Note 39.

- Revised Notes 1, 11 & 30 such as symbols and legends, slopes, system and vendor designations
- Revised physical layout of LCP-VSL-00006
- Changed Quality Designator from CM to Q
- Added overflow line from LFP-VSL-00004
- Added slope notation to numerous lines
- Modified depiction of vessel vent lines to show lines going into vessel
- Added magnetic flow meter and associated instrumentation to pump discharge lines

¹ Class 1 modifications requiring prior Agency approval.


² If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if applicable.

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- Corrected off-sheet coordinates
- Added ISA lines to bulges
- Added seismic category and quality flag designators
- Added nozzle size to vessel nozzles and deleted N21, N22, and N23 and added N18
- Added label for LCP-BULGE-00001
- Re-routed sample supply and return lines to ASX-SAMPLER-00012 from ASX-SAMPLER-00013
- Incorporated various editorial comments

The following is a list of outstanding change documents that have not been incorporated into this modification:
None

WAC 173-303-830 Modification Class: ¹²	Class 1	Class ¹ 1	Class 2	Class 3
Please mark the Modification Class:		X		
Enter Relevant WAC 173-303-830, Appendix I Modification citation number:	N/A			
Enter wording of WAC 173-303-830, Appendix I Modification citation: In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class ¹ 1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."				
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial)		Reviewed by Ecology:		
Reason for denial:		 B. Becker-Khaleel		
		9/5/07 Date		